

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1-14. (Canceled)

15. (New) A stochastic integer programming based constrained optimization method for allocation of classrooms and instructors to requested classes associated with cancellation probabilities, comprising the steps of:

inputting a list of classes by location city, preferred time window, their cancellation probabilities and available classrooms and instructors;

analyzing operational revenue/profit under different planning scenarios involving chaining of various classes, prerequisite relationships, and inter-class spacing requirements;

generating a revenue/profit optimization model of overall operational revenue/profit under the different planning scenarios by location city;

solving a stochastic program of a revenue/profits optimization model by solving its deterministic equivalent; and

outputting a list of classes scheduled by curriculum identification (ID), corresponding start date, allocated classrooms, location city, allocated instructor, and expected revenue,

wherein said start date for each class is calculated based on lengths of each class and available time windows for each class, and said start date for each back-to-back class is calculated based on lengths of each class and available time windows for each class,

wherein said allocated classrooms for each class is calculated based on tier codes for each class and available classrooms during allowable time windows for each class, and said allocated classrooms for each back-to-back class is calculated based on lengths of each class and available time windows for each class,

wherein said allocated instructors for each class is calculated based on available instructors with required skills during allowable time windows for each class, and said allocated instructors for each back-to-back class is calculated based on lengths of each class and available time windows for each class.